



NASA Health and Air Quality Applications 2012 Program Review

***John A. Haynes, MS
Program Manager, Health and Air Quality***

***Applied Sciences Program
Earth Science Division
Science Mission Directorate
NASA
Washington, DC USA***

jhaynes@nasa.gov



Program Review Goals

- Update of project status and look ahead to the coming year
- Discussion of community priority topics and “grand challenges”
- Investigation of collaborative opportunities (particularly between AQ and Health portfolios – first joint meeting since 2006)
- Leveraging existing programs (SERVIR, AQUEST, etc.)





Suomi NPP Launched on Oct. 28, 2011!



Earth Science Missions in Operation



Aquarius

OSTM/Jason 2 (NOAA)

Jason

QuikSCAT*

TRMM

EO-1

Landsat-7 (USGS)

Aqua

ACRIMSAT

Terra

Aura

NPP

SORCE

GRACE (2)

CALIPSO

CloudSat

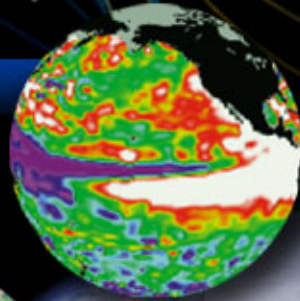
Earth System Science



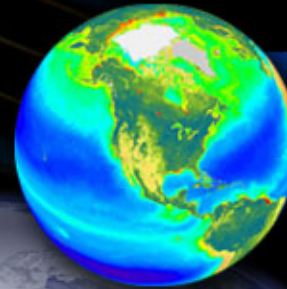
Sun- Earth
Connection

*“Advance Earth System Science to
meet the challenges of climate and
environmental change.”*

Climate Variability
and Change



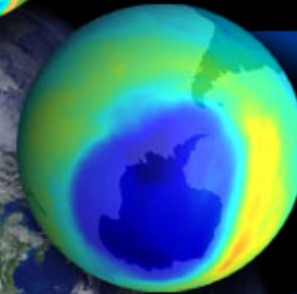
Carbon Cycle
and Ecosystems



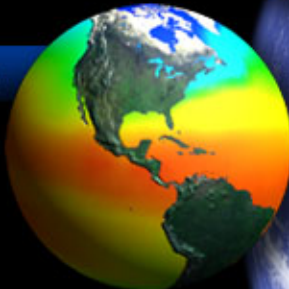
Earth Surface
and Interior



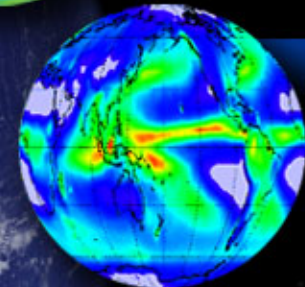
Atmospheric
Composition



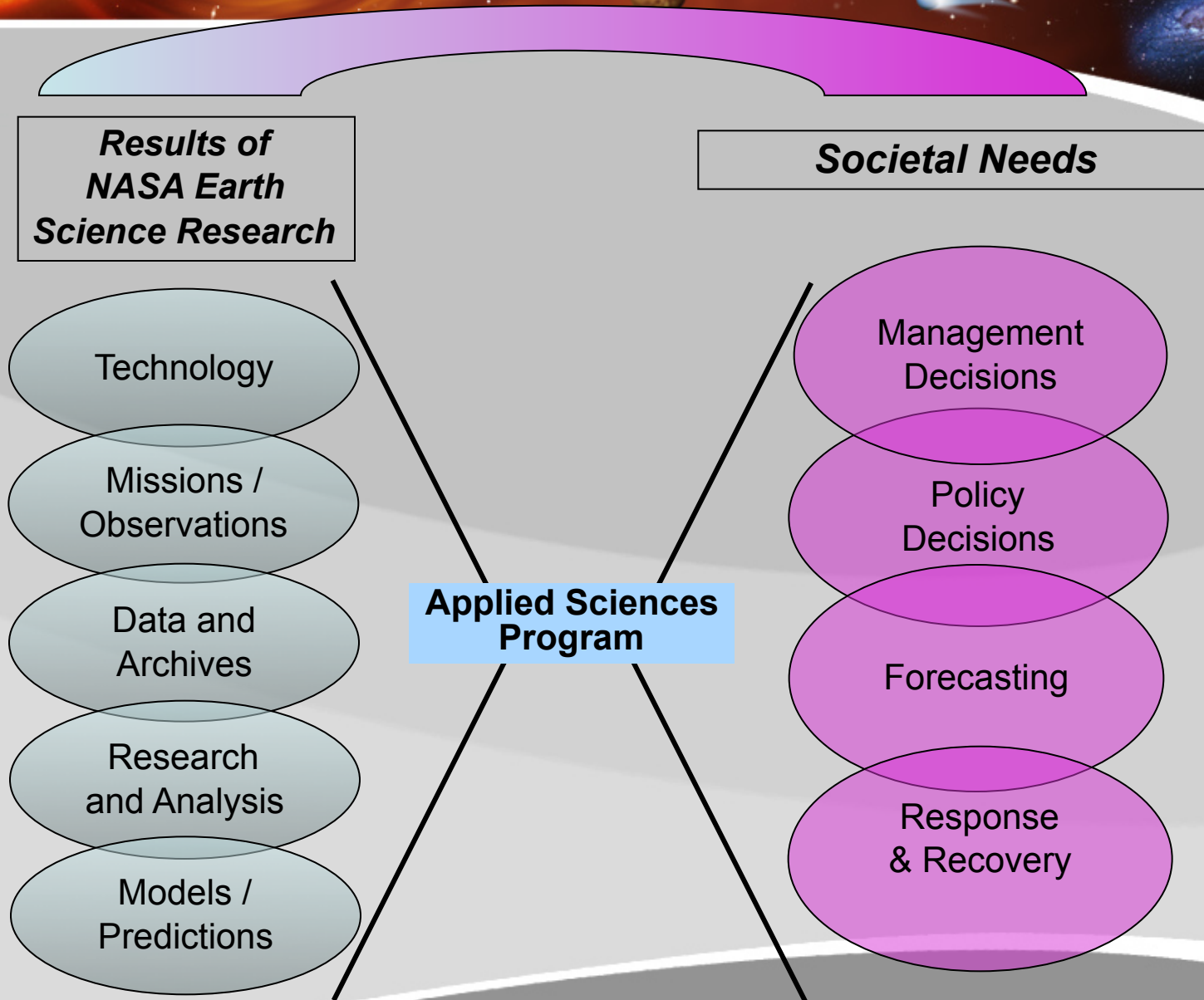
Weather



Water &
Energy
Cycle



NASA Applied Sciences Program Architecture





Applied Sciences Program

Four Major Program Elements



**Health and Air
Quality**



**Ecological
Forecasting**



**Water
Resources**



**Disaster
Management**



Focus Areas of Health and AQ

NASA's Health & Air Quality Applications Area supports the use of Earth observations in air quality management and public health, particularly regarding **infectious disease** and **environmental health** issues. The area addresses issues of toxic and pathogenic exposure and health-related hazards and their effects for risk characterization and mitigation. The area promotes uses of Earth observing data and models regarding implementation of **air quality standards, policy, and regulations** for economic and human welfare. The Health & Air Quality Applications Area also addresses **effects of climate change on public health and air quality** to support managers and policy makers in their planning and preparations.



NASA Earth Science Division FY13 President's Budget

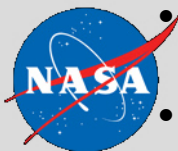
(\$ millions)

- FY12: \$1,760.5
- FY13: \$1,784.8
- FY14: \$1,775.6*
- FY15: \$1,835.5*
- FY16: \$1,826.2*
- FY17: \$1,772.8*

- * FY14-17 budgets are considered “notional.”

■ Major Items:

- President's Budget requests \$34.6M for ASP in FY13 rising to \$40.1M in FY17
- The FY13 budget for Earth Science is consistent with the FY12 request – **STABILITY!**
- Congressional appropriation for FY12 was also consistent with the President's budget request
- FY13 overall ESD requested funding level is ~\$25M above FY12 appropriated levels
- 6 month CR anticipated; Impact of possible sequestration being explored



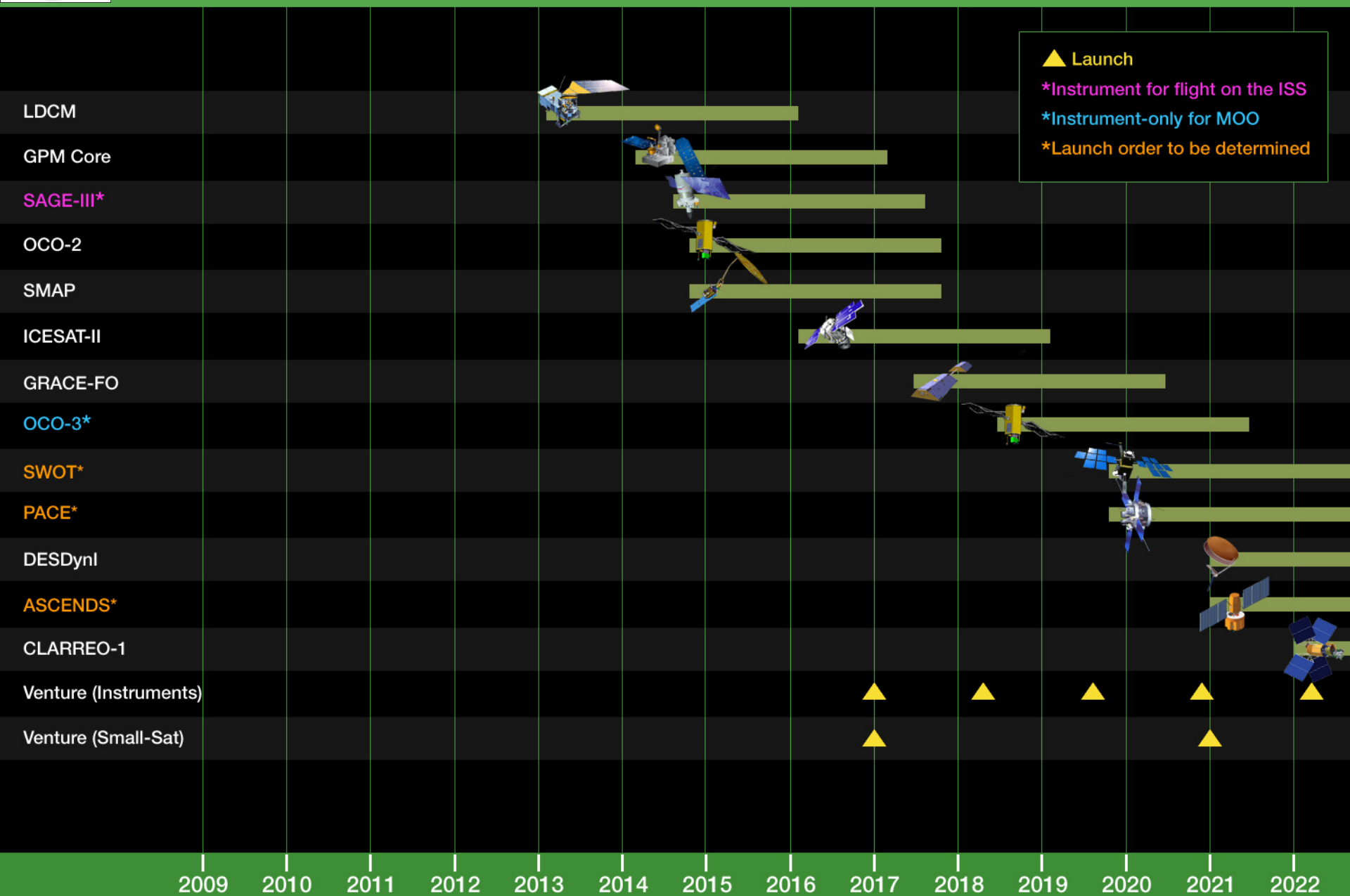
News Items in the ESD/ASP during 2012

- John Grunsfeld named as Associate Administrator of SMD (January 2012)
- Ali Omar (NASA LaRC) joins Sue Estes (NASA MSFC) as an Associate Program Manager for Health and AQ Applications.
- New Health and Air Quality solicitation expected soon. (ROSES 12).
- NASA Health/AQ Sessions at the following conferences:
 - ASTMH Annual Meeting (December 2011)
 - AMS Annual Meeting (January 2012)
 - AAAS Annual Meeting (February 2012)
 - ATS Annual Meeting (May 2012)
 - AGU Fall Meeting (Dec 2012) – ACAST 4 to be held immediately prior
 - AMS Annual Meeting (Jan 2013)
- NRC Decadal Survey Mid-Term Assessment released (May 2012)
- OECD Health Forum in Paris (June 2012)
- ACAST 3 Review in Madison (June 2012)
- NPP Applications Workshop in Washington, DC (June 21-22)
- GEO Health CoP in Karlsruhe, Germany (July 25-27)





Future Orbital Flight Missions 2011-2022



For More Information...



National Aeronautics and
Space Administration

Applied Sciences Program

Discovering Innovative & Practical Applications of NASA Earth Science

Home

About Applied Sciences

Applications & Capacity
Building

Solicitations

Documents & Resources

Links

News & Events

e-Books

Search

Visit the
Applied Sciences
Calendar

GEO Group On Earth Observations

Federation of Earth Science
Information Partners

earthzine

2010 ANNUAL REPORT



The Applied Sciences 2010 Annual Report has received a Gold MarCom award. [Read More >>](#)

1 2 3

Earth Science Serving Society

The Applied Sciences Program promotes and funds activities to discover and demonstrate innovative uses and practical benefits of NASA Earth science data, scientific knowledge, and technology. The Program's portfolio of projects deliver results in applying NASA Earth science to support improvements in aviation safety, malaria early warning, agricultural productivity, water management, earthquake response, and many other important topics.

The Applied Sciences Program partners with public and private organizations on ways to apply data from NASA's environmental satellites and scientific findings in their decision-making activities and services, helping to improve the quality of life and strengthen the economy.

Applied Sciences Program

News & Events

Applications Areas

Capacity Building

Application Areas



<http://appliedsciences.nasa.gov>

http://weather.msfc.nasa.gov/conference/phconference_np_home.html